

# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/684,191	10/14/2003	Long Bao Zhang	USDP2274A-ALL	8860
30265	7590 05/22/2006		EXAMINER	
RAYMOND Y. CHAN			HAN, JASON	
108 N. YNEZ AVE., SUITE 128 MONTEREY PARK, CA 91754			ART UNIT	PAPER NUMBER
	·		2875	
			DATE MAILED: 05/22/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/684,191	ZHANG, LONG BAO				
Office Action Summary	Examiner	Art Unit				
2	Jason M. Han	2875				
The MAILING DATE of this communication a						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailling date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMON  1.136(a). In no event, however, may  od will apply and will expire SIX (6) M  tute, cause the application to become	NICATION. a reply be timely filed  ONTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 02	? May 2006.					
<b>=</b> w/	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allow	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice unde	er <i>⊑x par</i> re Quayle, 1935 C	,.D. 11, 455 O.G. 215.				
Disposition of Claims						
4) Claim(s) 1 and 2 is/are pending in the application						
4a) Of the above claim(s) is/are without	Irawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1 and 2</u> is/are rejected.						
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
8) Claim(s) are subject to restriction an	d/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exam	niner.					
10)⊠ The drawing(s) filed on <u>14 October 2003</u> is/are: a) accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to	the drawing(s) be held in abe	yance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
11) The oath or declaration is objected to by the	e Examiner. Note the attac	med Office Action of form 1 10 102.				
Priority under 35 U.S.C. § 119		· ·				
12)☐ Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C	C. § 119(a)-(d) or (f).				
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
<ul><li>2. Certified copies of the priority documents have been received in Application No</li><li>3. Copies of the certified copies of the priority documents have been received in this National Stage</li></ul>						
		een received in this National Stage				
application from the International Bu		not received.				
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	∧ □ <sub> -4</sub> :	ow Summany (BTO 413)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152) 6) Other:						

#### **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on May 2, 2006 has been entered.

## Response to Arguments

2. Applicant's arguments with respect to Claims 1-2 have been considered but are moot in view of the new ground(s) of rejection.

#### **Drawings**

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the single bonded diode (re: Claim 2) must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet.

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and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Begemann (U.S. Patent 6220722).

Begemann discloses a light source arrangement including:

- An electric input adapter [Figures 1-2: (2)] for electrically connecting with a power source;
- A light head including:
  - = A supporting frame [Figures 1-2: (1, 3)], which is made of good heat conduction material [Column 3, Lines 56-58, 66-67], with at least a

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dissipating end [Figures 1-2: (1)] and a peripheral surface at an outer surrounding surface [Figures 1-2: (3)]; and

- A luminary unit [Figure 3] including:
  - A circuit [MC-PCB: Column 4, Lines 53-65] provided on said peripheral surface of said supporting frame and electrically connected with said electric input adapter, and
  - = At least a luminary element [Figure 3] having two terminal electrodes [Figure 3: (14)] electrically connecting to the circuit for emitting light when the terminal electrodes are electrified, whereby the luminary element is mounted on the peripheral surface of the supporting frame such that when the luminary element emits light in a radial direction with respect to the supporting frame, the supporting frame is adapted for transmitting and dissipating heat from the luminary element at the dissipating end [Column 3, Line 66 Column 4, Line 6].

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Begemann (U.S. Patent 6220722) as applied to Claim 1 above, and further in view of AAPA (Applicant's Admitted Prior Art).

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Begemann discloses the claimed invention as cited above, but does not specifically teach the luminary element being a single bonded diode wherein one of the terminal electrodes is electrically connected to the supporting frame while another terminal electrode is electrically connected to the circuit.

AAPA teaches, "Moreover, the generation of LED has been changed from a single bonded diode to a double bonded diode wherein the single bonded diode is that the luminary element has an upper positive charged terminal electrically connected to a negative charged terminal of the circuit board and a lower negative charged terminal electrically connected to a positive charged terminal of the supporting stem" [Page 2, Lines 1-5].

It would have been obvious to one ordinarily skilled in the art at the time of invention to modify the luminary element of Begemann to be a single bonded diode, as taught by AAPA, which may facilitate easier installation with fewer connections to the circuit board. At present, it is clear that the main patentable feature of the device is not determined by whether the luminary element is a single or double bonded diode, as corroborated by the interchangeability addressed in the specification [Paragraph beginning at Page 5, Line 23].

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason M. Han whose telephone number is (571) 272-2207. The examiner can normally be reached on 8:00am-5:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jason M Han Examiner Art Unit 2875

JMH (5/15/2006)

Sandra O'Shea
Supervisory Patent Examiner
Technology Center 2800